

PAGE: 1

RAW SEQUENCE LISTING

PATENT APPLICATION US/09/302,239

DATE: 05/10/1999

TIME: 12:32:16

Input Set: I302239.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

ENTERED

1 <110> APPLICANT: Nelstuen, Gary L.
 2 <120> TITLE OF INVENTION: MODIFIED VITAMIN K-DEPENDENT
 3 POLYPEPTIDES
 4 <130> FILE REFERENCE: 09531/002001
 5 <140> CURRENT APPLICATION NUMBER: US/09/302,239
 6 <141> CURRENT FILING DATE: 1999-04-29
 7 <160> NUMBER OF SEQ ID NOS: 18
 8 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 9 <210> SEQ ID NO 1
 10 <211> LENGTH: 44
 11 <212> TYPE: PRT
 12 <213> ORGANISM: Homo sapiens
 13 <220> FEATURE:
 14 <221> NAME/KEY: MOD_RES
 15 <222> LOCATION: (0)...(0)
 16 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid
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 19 1 5 10 15
 20 Cys Ile Xaa Xaa Ile Cys Asp Phe Xaa Xaa Ala Lys Xaa Ile Phe Gln
 21 20 25 30
 22 Asn Val Asp Asp Thr Leu Ala Phe Trp Ser Lys His
 23 35 40
 24 <210> SEQ ID NO 2
 25 <211> LENGTH: 44
 26 <212> TYPE: PRT
 27 <213> ORGANISM: Bos taurus
 28 <220> FEATURE:
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 30 <222> LOCATION: (0)...(0)
 31 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid
 32 <400> SEQUENCE: 2
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 34 1 5 10 15
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 36 20 25 30
 37 Asn Thr Xaa Asp Thr Met Ala Phe Trp Ser Phe Tyr
 38 35 40
 39 <210> SEQ ID NO 3
 40 <211> LENGTH: 44
 41 <212> TYPE: PRT
 42 <213> ORGANISM: Homo sapiens
 43 <220> FEATURE:
 44 <221> NAME/KEY: MOD_RES

PAGE: 2

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45 <222> LOCATION: (0)...(0)
46 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid
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49 1 5 10 15
W--> 50 Cys Lys Xaa Xaa Gln Cys Ser Phe Xaa Xaa Ala Arg Xaa Ile Phe Lys
51 20 25 30
W--> 52 Asp Ala Xaa Arg Thr Lys Leu Phe Trp Ile Ser Tyr
53 35 40
54 <210> SEQ ID NO 4
55 <211> LENGTH: 44
56 <212> TYPE: PRT
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58 <220> FEATURE:
59 <221> NAME/KEY: MOD_RES
60 <222> LOCATION: (0)...(0)
61 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid
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64 1 5 10 15
W--> 65 Cys Arg Xaa Xaa Leu Cys Ser Phe Xaa Xaa Ala His Xaa Ile Phe Arg
66 20 25 30
W--> 67 Asn Xaa Xaa Arg Thr Arg Gln Phe Trp Val Ser Tyr
68 35 40
69 <210> SEQ ID NO 5
70 <211> LENGTH: 45
71 <212> TYPE: PRT
72 <213> ORGANISM: Homo sapiens
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76 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid
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79 1 5 10 15
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81 20 25 30
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91 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid
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W--> 93 Tyr Asn Ser Gly Lys Leu Xaa Xaa Phe Val Gln Gly Asn Leu Xaa Arg
94 1 5 10 15

PAGE: 3

RAW SEQUENCE LISTING PATENT APPLICATION US/09/302,239

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TIME: 12:32:16

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W--> 95      Xaa Cys Met Xaa Xaa Lys Cys Ser Phe Xaa Xaa Ala Arg Xaa Val Phe
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     141 <212> TYPE: DNA
     142 <213> ORGANISM: Artificial Sequence
     143 <220> FEATURE:
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PAGE: 4

RAW SEQUENCE LISTING

PATENT APPLICATION US/09/302,239

 DATE: 05/10/1999
 TIME: 12:32:16

Input Set: I302239.RAW

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155 <210> SEQ ID NO 14
156 <211> LENGTH: 36
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide
161 <400> SEQUENCE: 14
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165 <212> TYPE: DNA
166 <213> ORGANISM: Artificial Sequence
167 <220> FEATURE:
168 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide
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172 <211> LENGTH: 36
173 <212> TYPE: DNA
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189         1             5             10             15
W--> 190     Xaa Cys Leu Xaa Xaa Pro Cys Ser Arg Xaa Xaa Ala Phe Xaa Ala Leu
191             20             25             30
W--> 192     Xaa Ser Leu Ser Ala Thr Asp Ala Phe Trp Ala Lys Tyr
193             35             40             45
194 <210> SEQ ID NO 18

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PAGE: 5

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/302,239DATE: 05/10/1999
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196 <212> TYPE: PRT
197 <213> ORGANISM: Bos taurus
198 <220> FEATURE:
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202 <400> SEQUENCE: 18

W--> 203 Ala Asn Ser Phe Leu Xaa Xaa Val Lys Gln Gly Asn Leu Xaa Arg Xaa
204 1 5 10 15
W--> 205 Cys Leu Xaa Xaa Ala Cys Ser Leu Xaa Xaa Ala Arg Xaa Val Phe Xaa
206 20 25 30
W--> 207 Asp Ala Xaa Gln Thr Asp Xaa Phe Trp Ser Lys Tyr
208 35 40

VERIFICATION SUMMARY
PATENT APPLICATION US/09/302,239DATE: 05/10/1999
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Input Set: I302239.RAW

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18	W "N" or "Xaa" used: Feature required	Ala Asn Ser Phe Leu Xaa Xaa Leu Arg His S
20	W "N" or "Xaa" used: Feature required	Cys Ile Xaa Xaa Ile Cys Asp Phe Xaa Xaa A
33	W "N" or "Xaa" used: Feature required	Ala Asn Ser Phe Leu Xaa Xaa Leu Arg Pro G
35	W "N" or "Xaa" used: Feature required	Cys Ser Xaa Xaa Val Cys Xaa Phe Xaa Xaa A
37	W "N" or "Xaa" used: Feature required	Asn Thr Xaa Asp Thr Met Ala Phe Trp Ser P
48	W "N" or "Xaa" used: Feature required	Ala Asn Ala Phe Leu Xaa Xaa Leu Arg Pro G
50	W "N" or "Xaa" used: Feature required	Cys Lys Xaa Xaa Gln Cys Ser Phe Xaa Xaa A
52	W "N" or "Xaa" used: Feature required	Asp Ala Xaa Arg Thr Lys Leu Phe Trp Ile S
63	W "N" or "Xaa" used: Feature required	Ala Asn Gly Phe Leu Xaa Xaa Leu Arg Pro G
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78	W "N" or "Xaa" used: Feature required	Tyr Asn Ser Gly Lys Leu Xaa Xaa Phe Val G
80	W "N" or "Xaa" used: Feature required	Xaa Cys Met Xaa Xaa Lys Cys Ser Phe Xaa X
82	W "N" or "Xaa" used: Feature required	Xaa Asn Thr Xaa Arg Thr Thr Xaa Phe Trp L
93	W "N" or "Xaa" used: Feature required	Tyr Asn Ser Gly Lys Leu Xaa Xaa Phe Val G
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188	W "N" or "Xaa" used: Feature required	Ala Asn Lys Gly Phe Leu Xaa Xaa Val Arg L
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207	W "N" or "Xaa" used: Feature required	Asp Ala Xaa Gln Thr Asp Xaa Phe Trp Ser L